

IN THE ABSTRACT

Please amend the Abstract as follows: (*a marked-up Abstract as presently amended is attached hereto as Appendix B*):

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 The present invention is an exhaust gas purifier that can effectively remove soot from exhaust gas of a diesel automobile, for example, a truck and a bus. The present invention has a simple structure, and can effectively remove from exhaust gas the following exemplary pollutants, carbon monoxide, nitrogen oxides, sulfur oxides and hydrocarbons.

IN THE CLAIMS

Please amend Claims 1-10, and delete Claims 11 and 12, as follows: (*a marked-up set of Claims as presently amended is attached hereto as Appendix C*):

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 1. An exhaust gas purifier comprising:
 an exhaust gas purifying tank accommodating, at an interior, an exhaust gas purifying liquid selected from lubricating oils and animal and vegetable oils;
 an exhaust gas introducing flow path provided at a bottom portion of the exhaust gas purifying tank, and introducing exhaust gas which is to be purified into the exhaust gas purifying liquid accommodated in the exhaust gas purifying tank; and
 an exhaust gas guide-out flow path which guides exhaust gas, which has flowed through the exhaust gas purifying liquid, out to an exterior of the exhaust gas purifying tank,
 wherein a floating sphere filter which is equipped with floating spheres, which are a group of spheres, and a floating sphere accommodating chamber, which accommodates the floating spheres at an interior and which has a bottom plate and a ceiling plate formed such that the exhaust gas can flow therethrough and whose side walls are formed by floating walls which are thrust so as to push the floating spheres to return toward a central portion, is provided at the exhaust gas guide-out flow path.

2. An exhaust gas purifier comprising:
 a first exhaust gas purifying tank accommodating, at an interior, an exhaust gas purifying liquid selected from lubricating oils and animal and vegetable oils;
 a second exhaust gas purifying tank accommodating, at an interior, a nitrogen oxide removing liquid which has affinity with respect to nitrogen oxides and sulfur oxides;
 a first exhaust gas introducing flow path provided at a bottom portion of the first exhaust gas purifying tank, and introducing exhaust gas which is to be purified into the exhaust gas purifying liquid accommodated in the first exhaust gas purifying tank;

a second exhaust gas introducing flow path provided at a bottom portion of the second exhaust gas purifying tank, and introducing exhaust gas, which has been guided-out from the first exhaust gas purifying tank, into the nitrogen oxide removing liquid accommodated in the second exhaust gas purifying tank; and

an exhaust gas guide-out flow path which guides exhaust gas, which has been introduced into the exhaust gas purifying liquid, out to an exterior of the second exhaust gas purifying tank,

wherein a floating sphere filter which is equipped with floating spheres, which are a group of spheres, and a floating sphere accommodating chamber, which accommodates the floating spheres at an interior and which has a bottom plate and a ceiling plate formed such that the exhaust gas can flow therethrough and whose side walls are formed by floating walls which are thrust so as to push the floating spheres to return toward a central portion, is provided at both of the second exhaust gas introducing flow path and the exhaust gas guide-out flow path.

3. An exhaust gas purifier according to claim 2, wherein the nitrogen oxide removing liquid is water.

4. An exhaust gas purifier having an exhaust gas purifying tank accommodating, at an interior, an exhaust gas purifying liquid selected from lubricating oils and animal and vegetable oils; an exhaust gas introducing means provided within the exhaust gas purifying tank, and introducing exhaust gas into the exhaust gas purifying liquid accommodated in the exhaust gas purifying tank; and an exhaust gas guide-out flow path which guides out exhaust gas which has flowed through the exhaust gas purifying liquid,

wherein the exhaust gas introducing means is equipped with:
an exhaust gas jetting portion which jets exhaust gas in a given direction; and
an exhaust gas flow guiding duct which extends along a direction of jetting exhaust gas at the exhaust gas jetting portion, and a purifying liquid return opening, through which the exhaust gas purifying liquid flows in, is provided at one end of the exhaust gas flow guiding duct, and an opening portion, through which exhaust gas purifying liquid which has flowed through an interior flows out, is provided at another end of the exhaust gas flow guiding duct, and the exhaust gas jetting portion is accommodated in a vicinity of the purifying liquid return opening, and

a floating sphere filter which is equipped with floating spheres, which are a group of spheres, and a floating sphere accommodating chamber, which accommodates the

floating spheres at an interior and which has a bottom plate and a ceiling plate formed such that the exhaust gas can flow therethrough and whose side walls are formed by floating walls which are thrust so as to push the floating spheres to return toward a central portion, is provided at the exhaust gas guide-out flow path.

5. An exhaust gas purifier having an exhaust gas purifying tank accommodating, at an interior, an exhaust gas purifying liquid selected from lubricating oils and animal and vegetable oils; an exhaust gas introducing means provided within the exhaust gas purifying tank, and introducing exhaust gas into the exhaust gas purifying liquid accommodated in the exhaust gas purifying tank; and an exhaust gas guide-out flow path which guides out exhaust gas which has flowed through the exhaust gas purifying liquid,

wherein the exhaust gas introducing means is equipped with:

an exhaust gas jetting portion which jets exhaust gas in a given direction; and
an exhaust gas flow guiding duct which extends along a direction of jetting exhaust gas at the exhaust gas jetting portion, and a purifying liquid return opening, through which the exhaust gas purifying liquid flows in, is provided at one end of the exhaust gas flow guiding duct, and an opening portion, through which exhaust gas purifying liquid which has flowed through an interior flows out, is provided at another end of the exhaust gas flow guiding duct, and the exhaust gas jetting portion is accommodated in a vicinity of the purifying liquid return opening, and

an exhaust gas purifying liquid agitating portion, which is equipped with a agitating sphere accommodating chamber, which is formed such that exhaust gas can flow therethrough, and agitating spheres, which are accommodated so as to be able to float at an interior of the agitating sphere accommodating chamber, and which mixes exhaust gas purifying liquid which flows out from an interior of the exhaust gas flow guiding duct, is provided in a vicinity of the opening portion provided at the other end of the exhaust gas flow guiding duct.

6. An exhaust gas purifier according to claim 5, wherein a floating sphere filter which is equipped with floating spheres, which are a group of spheres, and a floating sphere accommodating chamber, which accommodates the floating spheres at an interior and which has a bottom plate and a ceiling plate formed such that the exhaust gas can flow therethrough and whose side walls are formed by floating walls which are thrust so as to push the floating spheres to return toward a central portion, is provided at the exhaust gas guide-out flow path.